

# PATENT SPECIFICATION



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## COMPLETE SPECIFICATION.

### Improvements in and relating to Lids or Closures for Jars, Tins and the like.

We, ARIDOR MANUFACTURING COMPANY (GREAT BRITAIN) LIMITED, a company duly organized and existing under the limited liability laws of Great Britain, of 5 53, Great Marlborough Street, London, W. 1, and WILLIAM ALFRED TURPIN, a British subject, of 15, Larden Road, Acton, London, W., do hereby declare the nature of this invention and in what 10 manner the same is to be performed, to be particularly described and ascertained in and by the following statement:—

This invention relates to improvements in lids or closures for jars, tins and the 15 like of the kind wherein the lid or closure is provided with a detachable moisture absorbing device for protecting the contents from the effects of the atmosphere.

In a known arrangement, the moisture 20 absorbing material is contained in a perforated casing formed with a flange, the latter being adapted to seat beneath a rubber sealing washer fitted in the container lid and being thus held in operative position.

In order to restore the moisture absorbing 25 material for fresh use after it has been saturated, it is necessary to bake the casing and its contents. With the above described arrangement before this can be done it is necessary to remove the rubber sealing ring to detach the casing, since if the whole were baked, the ring would be spoiled.

The present invention has for its object 30 to provide improved means for detachably holding the moisture absorbing material in position in the closure, such means being particularly, but not exclusively, adapted for use in cases wherein it is desired to fit the closure with a rubber or like sealing ring.

According to the invention the container 35 for the moisture absorbing material is held in position by means of a separate flanged retaining ring or like

part which is adapted to be detachably held in the lid or closure by means such as a joint of the bayonet type or by a screw or like joint. This retaining ring 50 or part may or may not carry the rubber or like sealing ring. The container for the moisture absorbing material may be a perforated casing or other holder and is detachably held by the retaining ring 55 or the like.

With this arrangement by simply turning the ring or like part, the latter is freed from the closure, and falls away together with the moisture absorbing 60 material holder.

Various constructions are possible and to enable the invention to be fully understood it will now be described by reference to the accompanying drawings in 65 which:—

Fig. 1 is a sectional elevation of a closure having one form of the invention applied thereto, in position on the mouth of a container, and 70

Fig. 2 is an underside plan view thereof.

Figs. 3 and 4 are views similar respectively to Figs. 1 and 2, shewing a further form of the invention.

Figs. 5 and 6 are sectional elevations of further forms of the invention.

Referring first to Figs. 1 and 2.

The closure is here shewn as a lid 7 of the screw-on type having threads 8, which 80 may be interrupted, engaging suitable threads 9 on the mouth of the container 10. The moisture absorbing material 11 is contained in a casing 12, having a perforated bottom and formed with an 85 annular shoulder 13. The casing 12 is held in position in the lid by means of a retaining ring 14 having an internal flange 15 adapted to seat under the shoulder 13 on the casing as shewn, and 90 an outwardly turned flange 16 at its upper end. The underside of the flange

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16 may carry a rubber or like sealing ring 17 if desired.

To hold the ring 14 in position in the closure, the latter is formed with two 5 diametrically opposed internal projections 18 and the flange 16 is cut away as shewn at two diametrically opposed points 19.

With this arrangement, to secure the 10 device to the closure, the casing 12 is seated in the ring 14 and the latter is introduced into the lid so that the slots 19 pass over the projections 18. The 15 ring is then turned so that the projections 18 and slots 19 are out of register as shewn in Fig. 2 and the ring and casing are thus firmly held in the lid.

To detach the ring it is turned until the 20 projections 18 and the slots or gaps 19 register, as will be readily understood. It will be noted that the sealing 25 ring 17 is removed with the ring 14 and the casing 12 can be readily slipped out of the ring and baked without interfering with the sealing ring in any way.

The numbers and positions of the 30 projections 18 and slots 19 may, of course, be varied.

Further, the casing 12 may be perforated on all or any of its sides or it 35 may be open at the top. Various shapes of the casing 12 are possible and instead of the shoulder 13 a flange or projection may obviously be substituted. Obviously, the ring 14 may be screwed into the closure instead of being held by the bayonet joint illustrated.

In the example illustrated in Figs. 3 40 and 4, the general arrangement of the casing 12 and retaining ring 14 agrees with that shewn in Figs. 1 and 2 with the exception that the gaps 19 are formed on the inside of the flange 16, the 45 projections 18 being formed on the inside of a central recessed portion 20 of the lid as shewn. The operations of securing and detaching the device are as previously described.

In the example illustrated in Fig. 5 50 the retaining ring 14 is secured as in Figs. 1 and 2, but it is formed with screw threads 21, the perforated casing 12 being formed with corresponding threads, so that it may be detachably secured to the ring. Thus, in this case the casing 12 may be attached and detached without disturbing the ring 14, the latter serving as a detachable mounting for the sealing ring 17. Again, the ring 14 may be held 60 in the closure by a screw joint if desired.

In the example illustrated in Fig. 6, the top of the lid 7 is recessed as shewn forming a recess in which the sealing ring 17 is inserted. The recessed portion 22 65 is formed with projections 23 and the

ring 14 is fitted with an internal flange 24 which has gaps cut therein adapted to register with the projections 23 in the manner already described with reference to Figs. 3 and 4. The casing 12 is shaped and held by the ring 14 as in Figs. 1 and 2. In this arrangement the sealing ring 17 is not detached with the ring 14.

Instead of the bayonet type of joint 75 above described, the retaining ring may readily be adapted to screw into the closure.

It will be noted that in the examples 80 illustrated the casing containing the moisture absorbing material is detachably connected to the flanged retaining member. In such cases the retaining member may be held in the closure by a joint of the bayonet type or by a screw or like joint.

Obviously, the present invention is 85 applicable to types of closure other than the screw-on type and is not limited to a circular shape.

Any suitable moisture absorbing 90 material may be used and the casing therefor may be of any convenient shape. The moisture absorbing cakes described in British Specification No. 205,173 may 95 conveniently be used.

Having now particularly described and ascertained the nature of our said invention and in what manner the same is to be performed, we declare that what we 100 claim is:—

1. In lids or closures of the kind referred to, the provision of means for detachably holding the moisture absorbing material in position in the closure 105 comprising a separate flanged ring retaining member or like part in which a container for the moisture absorbing material is adapted to seat or be detachably retained, the ring or part then being 110 detachably held in the closure by means such as a joint of the bayonet type or a screw or like joint.

2. In lids or closures as claimed in 115 Claim 1, an arrangement wherein the retaining ring or part is provided with a flange having gaps or slots therein adapted to register with projections formed on the interior of the closure as and for the purpose hereinbefore 120 described.

3. In lids or closures as claimed in 125 Claim 2, an arrangement wherein the retaining ring or part is provided with an internal flange on which a perforated casing or the like for containing the moisture absorbing material is adapted to rest.

4. In lids or closures as claimed in 130 Claim 1 or 2, an arrangement wherein

the retaining ring or part is screw-threaded to receive a similarly threaded perforated casing or the like for containing the moisture absorbing material.

5 5. In lids or closures as claimed in any of the preceding claims, an arrangement wherein the flanged retaining ring or part also carries a rubber or like ring for sealing the mouth of the container, substantially as described.

6. Means for holding moisture absorbing material in position in lids or closures, constructed and arranged, substantially as hereinbefore described with reference to the accompanying drawings. 15

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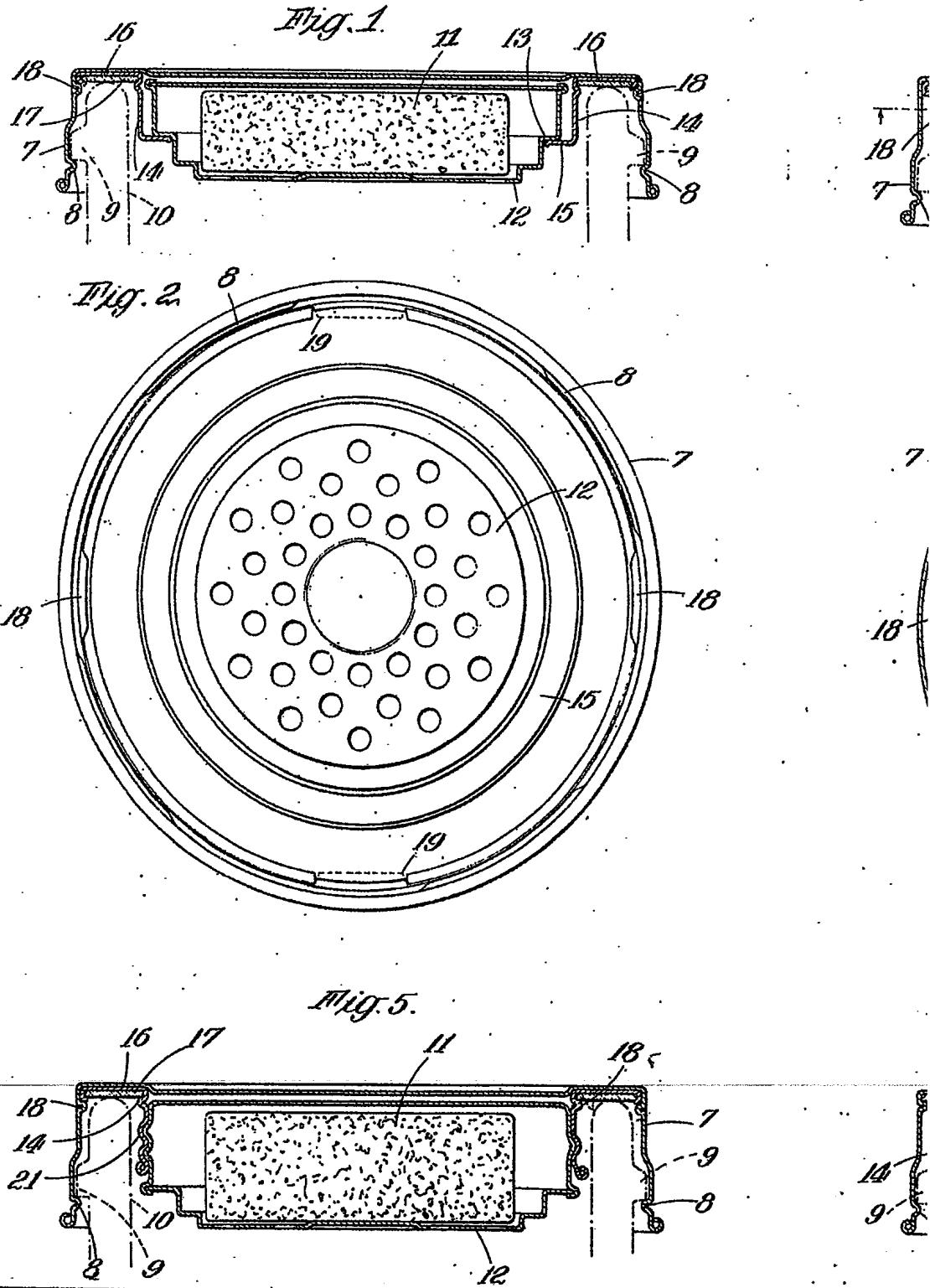


FIG. 3.

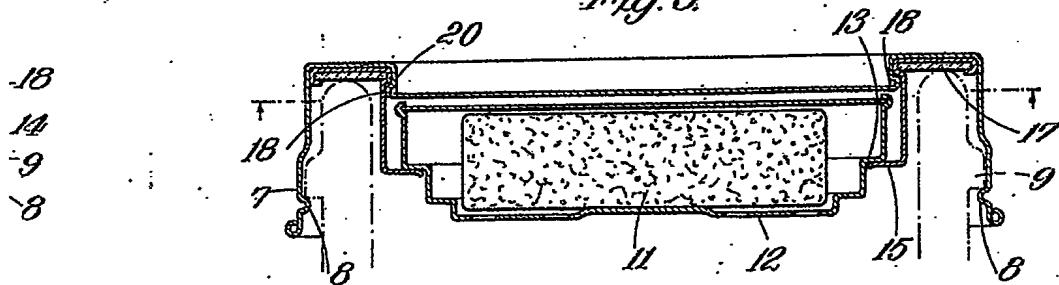


FIG. 4.

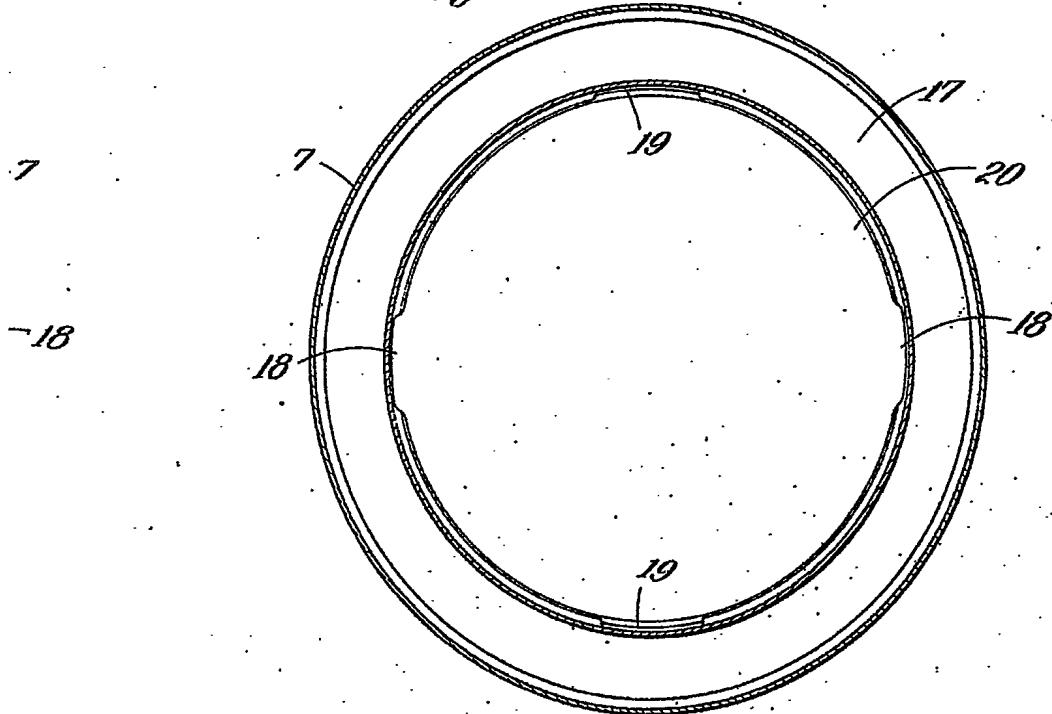
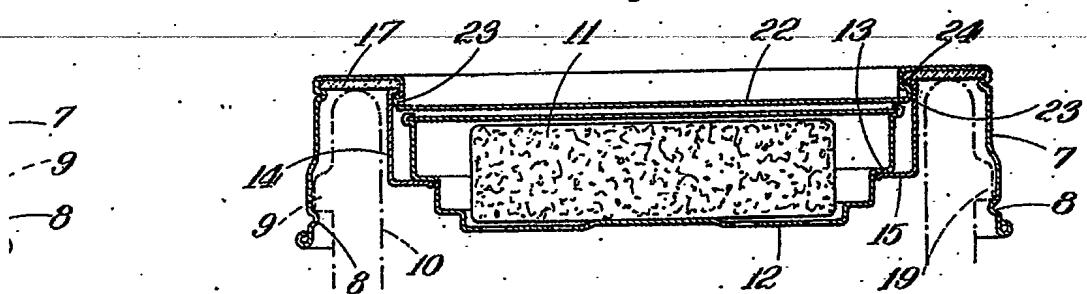
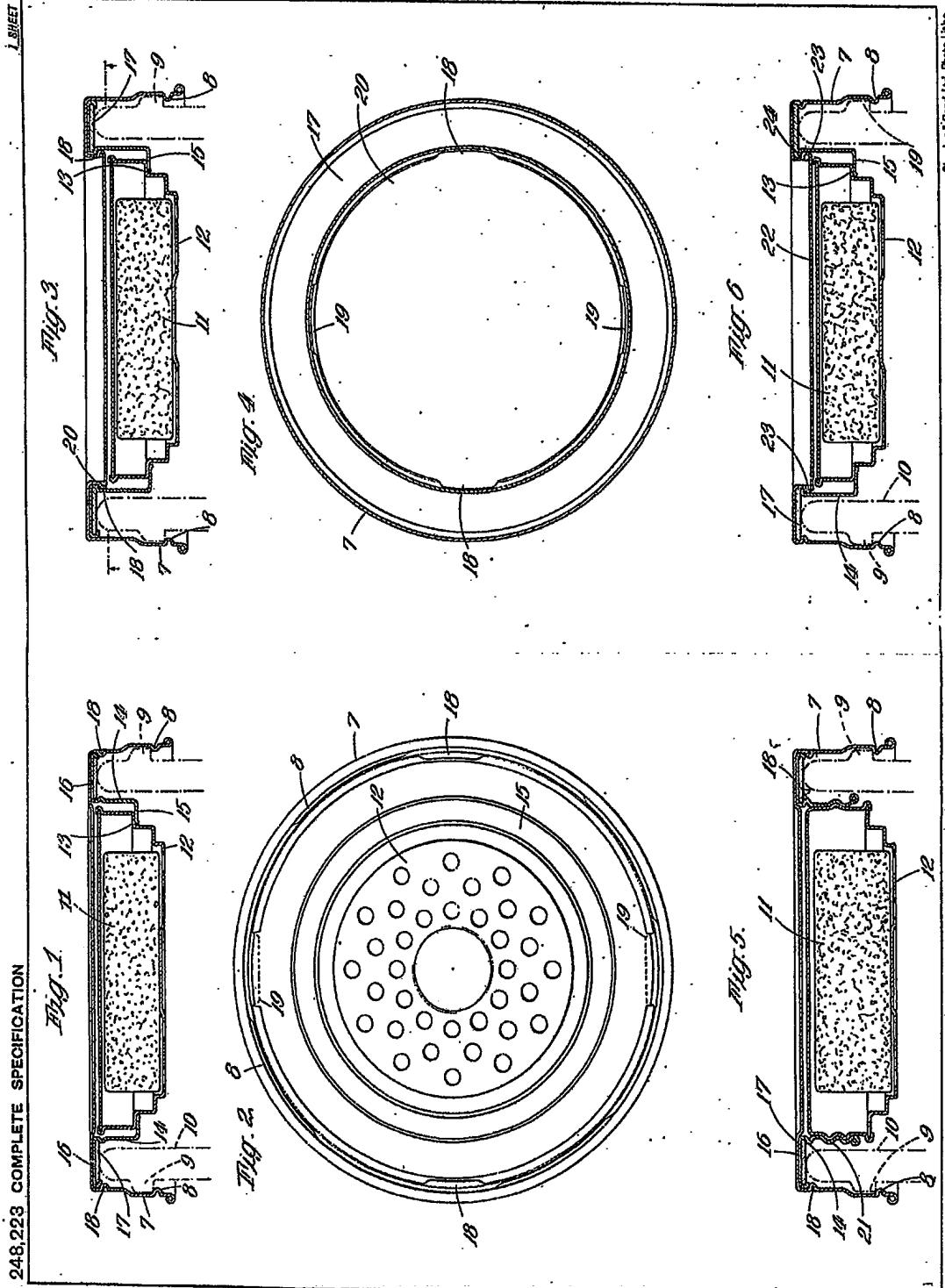


FIG. 6.



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